#6

SEQUENCE LISTING

<110> Burgess, Catherine E
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Zerhusen, Bryan D
Mezes, Peter S

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<141> 2000-12-05

<150> 60/169,056
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35 40 45

Glu Val Ala Val Glu Ala Ala Gly Ile Thr Pro Trp Thr Val Gly Ser
50 55 60

Glu His Pro Pro Cys Pro Tyr Pro Ser Leu His Ala Ser Pro Phe Thr
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Asp Ser Phe Asn Arg Pro Ser Pro Ala Pro Leu Asn Arg Pro Arg Ser
85 90 95

Ala Gly Glu Pro Arg Thr Glu Ala Phe Pro Ser Pro Gly Leu Lys Ala
100 105 110

Arg Val Gly Gly Thr Ile Leu Ala Glu Ala Gly Leu Asn Ser Gln Gly
115 120 125

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Cys Val Leu Ile Lys Gly Arg Pro Ser Arg Met Pro Lys Ala Arg Glu
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Cys Pro Val Asp Arg Glu Asn Leu Leu Leu Thr Asn Pro Ala Val Pro
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Ala Lys Gly Ser Ser Phe Leu Glu Leu Gln Asn Val Ser Gly Gly Val
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245 250 255

Gln Ser Pro Phe Pro Glu Leu Gly Ala Gly Ser Pro Pro Leu Ala Leu
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Glu Lys Val Ser Thr Gln Pro Ile Pro Gln Ala Arg Leu Arg Lys Gly
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Val Asp Trp Pro Pro Val Ser Pro Gly Asp Gln Cys Pro Leu Cys Thr
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Leu Pro Gly Gln Pro Asn Leu Ala His Thr Gly Cys Ser Leu Asn Ser
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35 40 45

Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro
50 55 60

His Thr Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu
65 70 75 80

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85 90 95

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Phe Val Gly Cys Ala Val Arg Glu Phe Thr Phe Leu Ala Lys Lys Pro
35 40 45

Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp Ala Cys Trp Gly Arg Cys
50 55 60

Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro Pro Tyr Ile Glu Ala His
65 70 75 80

His Arg Val Cys Thr Tyr Asn Glu Thr Lys Gln Val Thr Val Lys Leu
85 90 95

Pro Asn Cys Ala Pro Gly Val Asp Pro Phe Tyr Thr Tyr Pro Val Ala
100 105 110

Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr Ala Thr Thr Glu Leu Arg
115 120 125

Leu Met Pro Gly Glu Ala Ala Val Ala Leu Gly Phe Trp Cys Gln Arg
130 135 140

Arg Arg Gln Gly Ser Arg Thr Thr Gly Thr Arg Trp Arg His Ala Ala
145 150 155 160

Val Arg Asp Lys Val Ser Leu Leu Lys Ala Val Asp Gly Trp Asn Gly
165 170 175

Leu Leu Gly Asp Pro Ala Ser Ser Gln Gly Leu Ser Ala Ser Ser Cys
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Thr Pro Val Phe Pro Leu Ala Phe Gln Ile Asp Ser Ala Ser Gly Lys
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35 40 45

Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala
50 55 60

Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr
65 70 75 80

Leu Pro Pro Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu
85 90 95

Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe
100 105 110

Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala
115 120 125

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130 135 140

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35 40 45

Arg Ser Ile Lys Pro Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr
50 55 60

Glu Phe Ser Asp Lys Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys
65 70 75 80

Gly Lys Asp Leu Cys Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr
85 90 95

Leu Gln Leu Lys Glu Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys
100 105 110

Ala Gln Lys Pro Phe Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser
115 120 125

Val Phe Gln Ser Val Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr
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Asn Thr Asn Phe Tyr Leu Asp Ser Val Glu
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His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
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Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
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Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
 65                  70                  75                  80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
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Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
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35 40 45

Ile Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser
50 55 60

Pro Leu Gly Thr Ala Pro His Thr Ser Leu Arg Asp Gln Arg Leu Gln
65 70 75 80

Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly
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Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu
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Val Gln Ile Leu Gln Lys
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20 25 30

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35 40 45

Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Gly Pro Leu Arg Asp Gln
50 55 60

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys
65 70 75 80

Ala Leu Gly Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg
85 90 95

Arg Leu Leu Val Gln Ile Leu Gln Lys
100 105

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20 25 30

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35 40 45

Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser
50 55 60

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His Trp Gly Gln Leu Pro Thr Pro Pro Leu Arg Asp Gln Arg Leu Gln
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Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly
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Val Gln Ile Leu Gln Lys
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Arg Val His Ser Arg Gly Lys Leu Trp Ala Ile Gly His Phe Met Gly
         35                  40                  45

Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro
     50                  55                  60

His Thr Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu
 65                  70                  75                  80

Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly Val Ser Leu Ser Arg Pro
                 85                  90                  95

Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu Val Gln Ile Leu Gln Lys
            100                 105                 110
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Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Pro Arg Gly Asn
35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Pro
50 55 60

Ser Leu Ser Leu Val Gly Thr Ala Pro Pro Ile Thr Gln Arg Glu Gln
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Arg Ile Leu Leu Leu Gln Lys
85 90 95

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100 105 110

Arg Leu Leu Gln Lys
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20 25 30

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35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser
50 55 60

Ser Pro Ser His Trp Gly Gln Leu Pro Thr Pro Pro Leu Arg Asp Gln
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys
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<213> Salmo salar

<400> 30
ctgctggggt cgctgtgaga cctgggagaa acccattctg gaacccccct atattgaagc 60
ccatcatcga gtctgtacct acaacgagac caaacaggtg actgtcaagc tgcccaactg 120
tgccccggga gtcgacccct tctacaccta tcccgtggcc atccgctgtg actgcggagc 180
ctgctccact gccaccacgg agctg 205

<210> 31
<211> 124
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 31
ctgcgggcct ggaccggagc ctttaaccca tttactcacg ttgacctacg agccagactc 60
ctccactgtc cccggtgacc cttcacctac cgtggctgct gtgactgcgc tgcagcaccg 120
actg 124

<210> 32
<211> 201
<212> DNA
<213> Homo sapiens

<400> 32
ctgcagtggc cactgcgtca ccaaggagcc ggttttcaag agcccatttt ccaccgtgta 60
ccagcatgtg tgcacctacc gggacgtccg ctatgaaacg atccgcctac ctgactgtcc 120
cccttgggtg gaccatcatg tcacctaccc tgtggctctg agctgtgact gcagcctctg 180
taacatggac acttctgact g 201

<210> 33
<211> 85
<212> PRT
<213> Cyprinus carpio

<400> 33
Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
1 5 10 15

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
20 25 30

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
35 40 45

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
50 55 60

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser
65 70 75 80

Thr Ala Thr Thr Glu
85

<210> 34
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 34
Thr Lys Gly Cys Leu Thr Cys Gly Cys Thr Glu Pro Pro Val Cys Thr
1 5 10 15

Tyr Thr Val Leu Pro Cys Pro Gly Val Asp Pro Thr Tyr Pro Val Ala
20 25 30

Cys Asp Cys Cys Thr
35

<210> 35
<211> 85

<212> PRT
<213> Homo sapiens

<400> 35
Thr Val Ala Val Glu Lys Glu Gly Cys Pro Lys Cys Leu Val Leu Gln
1 5 10 15

Thr Thr Ile Cys Ser Gly His Cys Leu Thr Lys Glu Pro Val Tyr Lys
20 25 30

Ser Pro Phe Ser Thr Val Tyr Gln His Val Cys Thr Tyr Arg Asp Val
35 40 45

Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys Pro Pro Gly Val Asp Pro
50 55 60

His Ile Thr Tyr Pro Val Ala Leu Ser Cys Asp Cys Ser Leu Cys Thr
65 70 75 80

Met Asp Thr Ser Asp
85

<210> 36
<211> 117
<212> PRT
<213> Clupea pallasi

<400> 36
Pro Met Ala Leu Leu Leu Leu Ala Gly Tyr Gly Cys Val Leu Gly Ala
1 5 10 15

Ser Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe
20 25 30

Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
35 40 45

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
50 55 60

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
65 70 75 80

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
85 90 95

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser

100 105 110

Thr Ala Thr Thr Glu
115

<210> 37
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 37
Pro Leu Leu Cys Val Leu Ala Asn Leu Cys Thr Lys Gly Cys Arg Leu
1 5 10 15

Thr Cys Gly Cys Thr Glu Pro Pro Val Cys Thr Tyr Thr Leu Pro Cys
20 25 30

Ala Gly Val Asp Pro Thr Tyr Pro Val Ala Cys Cys Cys Ser Thr
35 40 45

<210> 38
<211> 116
<212> PRT
<213> Homo sapiens

<400> 38
Pro Glu Cys Thr Ile Leu Leu Leu Leu Cys Met Cys Val Leu Ala Val
1 5 10 15

Pro Ala Gln Cys Phe Asn Leu Gln Pro Cys Val Leu Val Asn Glu Thr
20 25 30

Val Ser Val Glu Lys Glu Gly Cys Pro Arg Cys Leu Val Phe Arg Thr
35 40 45

Thr Ile Cys Ser Gly His Cys Pro Thr Lys Glu Pro Val Tyr Lys Ser
50 55 60

Pro Phe Ser Val Val Asn Gln His Val Cys Thr Tyr Gly Asn Phe Arg
65 70 75 80

Tyr Glu Thr Ile Arg Leu Pro Asp Cys Ala Asp Gly Val Asp Pro Leu

```
                85                  90                  95

Val Thr Tyr Pro Val Ala Leu Ser Cys Glu Cys Ser Leu Cys Ser Met
            100                 105                 110

Asp Thr Ser Asp
        115
```

<210> 39
<211> 101
<212> PRT
<213> Homo sapiens

<400> 39

```
Ser Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe
  1               5                  10                  15

Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
             20                  25                  30

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
         35                  40                  45

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
     50                  55                  60

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
 65                  70                  75                  80

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser
                85                  90                  95

Thr Ala Thr Thr Glu
            100
```

<210> 40
<211> 40
<212> PRT
<213> Homo sapiens

<400> 40

```
Ser Gly Leu Arg Cys Thr Ala Lys Cys Thr Thr Cys Gly Cys Pro Pro
  1               5                  10                  15

Pro Arg Val Cys Thr Tyr Glu Val Leu Pro Cys Pro Gly Val Asp Pro
             20                  25                  30
```

Pro Val Ala Cys Cys Gly Cys Thr
35 40

<210> 41
<211> 99
<212> PRT
<213> Homo sapiens

<400> 41
Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile Asn Ala Thr Leu
1 5 10 15

Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr Phe Thr Thr Ser
20 25 30

Ile Cys Ala Gly Tyr Cys Pro Ser Met Lys Arg Val Leu Pro Val Ile
35 40 45

Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His Glu Leu Arg Phe
50 55 60

Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val Asp Pro Met Val
65 70 75 80

Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro Cys Arg Leu Ser
85 90 95

Ser Thr Asp

<210> 42
<211> 116
<212> PRT
<213> Equus caballus

<400> 42
Met Ala Leu Leu Leu Leu Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser
1 5 10 15

Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe Thr
20 25 30

Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp
35 40 45

Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro
50 55 60

Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr Lys
65 70 75 80

Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro Phe
85 90 95

Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr
100 105 110

Ala Thr Thr Glu
115

<210> 43
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 43
Leu Leu Gly Val Ala Ser Gly Leu Arg Cys Thr Ala Lys Cys Thr Thr
1 5 10 15

Cys Gly Cys Pro Ala Val Cys Thr Tyr Glu Leu Pro Cys Pro Gly Val
20 25 30

Asp Pro Pro Val Ala Cys Cys Gly Cys Thr Thr
35 40

<210> 44
<211> 113
<212> PRT
<213> Homo sapiens

<400> 44
Leu Leu Leu Trp Met Leu Leu Ser Val Gly Gly Val Trp Ala Ser Arg
1 5 10 15

Gly Pro Leu Arg Pro Leu Cys Arg Pro Ile Asn Ala Thr Leu Ala Ala
20 25 30

Glu Lys Glu Ala Cys Pro Ile Cys Ile Thr Phe Thr Thr Ser Ile Cys
35 40 45

Ala Gly Tyr Cys Pro Ser Met Val Arg Val Met Pro Ala Ala Leu Pro
50 55 60

Ala Ile Pro Gln Pro Val Cys Thr Tyr Arg Glu Leu Arg Phe Ala Ser
65 70 75 80

Ile Arg Leu Pro Gly Cys Pro Pro Gly Val Asp Pro Met Val Ser Phe
85 90 95

Pro Val Ala Leu Ser Cys His Cys Gly Pro Cys Gln Ile Lys Thr Thr
100 105 110

Asp

<210> 45
<211> 144
<212> PRT
<213> Homo sapiens

<400> 45
Met Gly Thr Pro Val Lys Ile Leu Val Val Arg Asn His Ile Leu Phe
1 5 10 15

Ser Val Val Val Leu Leu Ala Val Ala Gln Ser Ser Tyr Leu Pro Pro
20 25 30

Cys Glu Pro Val Asn Glu Thr Val Ala Val Glu Lys Glu Gly Cys Pro
35 40 45

Lys Cys Leu Val Leu Gln Thr Thr Ile Cys Ser Gly His Cys Leu Thr
50 55 60

Lys Glu Pro Val Tyr Lys Ser Pro Phe Ser Thr Val Tyr Gln His Val
65 70 75 80

Cys Thr Tyr Arg Asp Val Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys
85 90 95

Pro Pro Gly Val Asp Pro His Ile Thr Tyr Pro Val Ala Leu Ser Cys
100 105 110

Asp Cys Ser Leu Cys Thr Met Asp Thr Ser Asp Cys Thr Ile Glu Ser
115 120 125

Leu Gln Pro Asp Phe Cys Met Ser Gln Arg Glu Asp Phe Leu Val Tyr
130 135 140

<210> 46
<211> 140
<212> PRT
<213> Carassius auratus

<400> 46
Met Gly Thr Pro Val Lys Ile Leu Val Val Leu Phe Ser Val Ile Val
1 5 10 15

Leu Leu Ala Val Ala Gln Ser Ser Tyr Leu Pro Pro Cys Glu Pro Val
20 25 30

Asn Glu Thr Val Ala Val Glu Lys Glu Gly Cys Pro Lys Cys Leu Val
35 40 45

Leu Gln Thr Thr Ile Cys Ser Gly His Cys Leu Thr Lys Glu Pro Val
50 55 60

Tyr Lys Ser Pro Phe Ser Thr Val Tyr Gln His Val Cys Thr Tyr Arg
65 70 75 80

Asp Val Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys Pro Pro Gly Val
85 90 95

Asp Pro His Ile Thr Tyr Pro Val Ala Leu Ser Cys Asp Cys Ser Leu
100 105 110

Cys Thr Met Asp Thr Ser Asp Cys Thr Ile Glu Ser Leu Gln Pro Asp
115 120 125

Phe Cys Met Ser Gln Arg Glu Asp Phe Leu Val Tyr
130 135 140

<210> 47
<211> 141
<212> PRT
<213> Bos taurus

<400> 47

Met Glu Met Phe Gln Gly Leu Leu Leu Trp Leu Leu Leu Gly Val Ala
1 5 10 15

Gly Val Trp Ala Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile
20 25 30

Asn Ala Thr Leu Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr
35 40 45

Phe Thr Thr Ser Ile Cys Ala Gly Tyr Cys Pro Ser Met Lys Arg Val
50 55 60

Leu Pro Val Ile Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His
65 70 75 80

Glu Leu Arg Phe Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val
85 90 95

Asp Pro Met Val Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro
100 105 110

Cys Arg Leu Ser Ser Thr Asp Cys Gly Gly Pro Arg Thr Gln Pro Leu
115 120 125

Ala Cys Asp His Pro Pro Leu Pro Asp Ile Leu Phe Leu
130 135 140

<210> 48
<211> 141
<212> PRT
<213> Ovis aries

<400> 48
Met Glu Met Leu Gln Gly Leu Leu Leu Trp Leu Leu Leu Gly Val Ala
1 5 10 15

Gly Val Trp Ala Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile
20 25 30

Asn Ala Thr Leu Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr
35 40 45

Phe Thr Thr Ser Ile Cys Ala Gly Tyr Cys Leu Ser Met Lys Arg Val
50 55 60

Leu Pro Val Ile Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His
65 70 75 80

Glu Leu Arg Phe Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val
                85   90   95

Asp Pro Met Val Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro
            100   105   110

Cys Arg Leu Ser Ser Thr Asp Cys Gly Gly Pro Arg Thr Gln Pro Leu
        115   120   125

Ala Cys Asp His Pro Pro Leu Pro Asp Ile Leu Phe Leu
    130   135   140

<210> 49
<211> 230
<212> PRT
<213> Homo sapiens

<400> 49
Met Lys Leu Ala Phe Leu Phe Leu Gly Pro Met Ala Leu Leu Leu Leu
1   5   10   15

Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser Ser Gly Asn Leu Arg Thr
            20   25   30

Phe Val Gly Cys Ala Val Arg Glu Phe Thr Phe Leu Ala Lys Lys Pro
        35   40   45

Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp Ala Cys Trp Gly Arg Cys
    50   55   60

Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro Pro Tyr Ile Glu Ala His
65   70   75   80

His Arg Val Cys Thr Tyr Asn Glu Thr Lys Gln Val Thr Val Lys Leu
                85   90   95

Pro Asn Cys Ala Pro Gly Val Asp Pro Phe Tyr Thr Tyr Pro Val Ala
            100   105   110

Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr Ala Thr Thr Glu Leu Arg
        115   120   125

Leu Met Pro Gly Glu Ala Ala Val Ala Leu Gly Phe Trp Cys Gln Arg
    130   135   140

Arg Arg Gln Gly Ser Arg Thr Thr Gly Thr Arg Trp Arg His Ala Ala

145 150 155 160

Val Arg Asp Lys Val Ser Leu Leu Lys Ala Val Asp Gly Trp Asn Gly
165 170 175

Leu Leu Gly Asp Pro Ala Ser Ser Gln Gly Leu Ser Ala Ser Ser Cys
180 185 190

Thr Pro Val Phe Pro Leu Ala Phe Gln Ile Asp Ser Ala Ser Gly Lys
195 200 205

Val Gly Asn Phe Ser Ser Lys Gln Thr Phe Ile Phe Ser Ser Ala Glu
210 215 220

Ile Thr Leu Gly Gly Thr
225 230

<210> 50
<211> 215
<212> DNA
<213> Equus caballus

<400> 50
aggatgtgaa cattgaggaa ctgtacaaag gtggtgaaga ggccacacgc ttcaccttct 60
tccagagcag ctcaggctcc gccttcaggc ttgaggctgc tgcctggcct ggctggttcc 120
tgtgtggccc ggcagagccc cagcagccag tacagctcac caaggagagt gagccctcag 180
cccgtaccaa gttttacttt gaacagagct ggtag 215

<210> 51
<211> 147
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus
sequence

<400> 51
agggtaacat gactgcaaag gagagcacgc ttcaccttct ccgcacggcc ccccagcttg 60
agctgcgcct gcctggctgg ttccttgcgc agagcacgcc gtcagctcac caaagagagc 120
ctcagtacca agtttactta agcgtag 147

<210> 52
<211> 218
<212> DNA

<213> Homo sapiens

<400> 52
aggcagttaa catcactgac ctgagcaaga acaaggagga gaacaagcgc ttcaccttca 60
tccgctcaaa cagtggcccc accaccagct tcgagtctgc cgcctgccct ggctggttcc 120
tctgcacggc gcaggaggca gaccggcccg tcagcctcac caacaagccc aaagagtcct 180
tcatggtcac caagttctac ttccaggagg accagtag 218

<210> 53
<211> 149
<212> PRT
<213> Mus musculus

<400> 53
Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr Thr Arg Asp
1 5 10 15

Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys Cys Ala Glu
20 25 30

Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr Lys Val Pro
35 40 45

Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala Cys Val Glu
50 55 60

Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr Leu Pro Pro
65 70 75 80

Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala Thr
85 90 95

Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu Glu
100 105 110

Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln
115 120 125

Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys
130 135 140

Phe Tyr Phe Glu Gln
145

<210> 54
<211> 70

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 54
Cys Phe Arg Lys Lys Leu Tyr Gln Leu Leu Gly Ala Glu Ile Pro Asn
1 5 10 15

Arg Leu Pro Leu Gly Gln Gly Gly Ser Cys Leu Cys Thr Glu Gly Pro
20 25 30

Leu Leu Glu Pro Val Asn Ile Glu Leu Tyr Gly Glu Phe Thr Phe Gly
35 40 45

Glu Ala Ala Pro Gly Trp Phe Leu Cys Glu Gln Pro Val Leu Thr Glu
50 55 60

Ala Thr Phe Tyr Phe Gln
65 70

<210> 55
<211> 146
<212> PRT
<213> Homo sapiens

<400> 55
Cys Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn
1 5 10 15

Asn Gln Leu Leu Ala Gly Gly Leu His Ala Glu Lys Val Ile Lys Gly
20 25 30

Glu Glu Ile Ser Val Val Pro Asn Arg Ala Leu Asp Ala Ser Leu Ser
35 40 45

Pro Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly
50 55 60

Thr Glu Lys Gly Pro Ile Leu Lys Leu Glu Pro Val Asn Ile Met Glu
65 70 75 80

Leu Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg
85 90 95

Asp Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp
100 105 110

Phe Leu Cys Thr Ser Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln
115 120 125

Ile Pro Glu Asp Pro Ala Trp Asp Ala Pro Ile Thr Asp Phe Tyr Phe
130 135 140

Gln Gln
145

<210> 56
<211> 149
<212> PRT
<213> Homo sapiens

<400> 56
Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr Thr Arg Asp
1 5 10 15

Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys Cys Ala Glu
20 25 30

Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr Lys Val Pro
35 40 45

Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala Cys Val Glu
50 55 60

Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr Leu Pro Pro
65 70 75 80

Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala Thr
85 90 95

Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu Glu
100 105 110

Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln
115 120 125

Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys
130 135 140

Phe Tyr Phe Glu Gln
145

<210> 57
<211> 67
<212> PRT
<213> Homo sapiens

<400> 57
Cys Phe Arg Lys Lys Leu Tyr Gln Leu Leu Gly Ala Glu Ile Pro Asn
1 5 10 15

Arg Leu Pro Leu Gly Gln Gly Gly Ser Cys Leu Cys Glu Pro Leu Leu
20 25 30

Glu Pro Val Asn Ile Glu Leu Tyr Gly Glu Phe Thr Phe Gly Glu Ala
35 40 45

Ala Pro Gly Trp Phe Leu Cys Glu Gln Pro Val Leu Thr Glu Thr Phe
50 55 60

Tyr Phe Gln
65

<210> 58
<211> 146
<212> PRT
<213> Homo sapiens

<400> 58
Cys Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn
1 5 10 15

Asn Gln Leu Leu Ala Gly Gly Leu His Ala Gly Lys Val Ile Lys Gly
20 25 30

Glu Glu Ile Ser Val Val Pro Asn Arg Trp Leu Asp Ala Ser Leu Ser
35 40 45

Pro Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly
50 55 60

Val Gly Gln Glu Pro Thr Leu Thr Leu Glu Pro Val Asn Ile Met Glu
65 70 75 80

Leu Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg
85 90 95

```
Asp Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp
            100                 105                 110

Phe Leu Cys Thr Val Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln
        115                 120                 125

Leu Pro Glu Asn Gly Gly Trp Asn Ala Pro Ile Thr Asp Phe Tyr Phe
    130                 135                 140

Gln Gln
145
```

<210> 59
<211> 173
<212> PRT
<213> Homo sapiens

<400> 59

```
Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
  1               5                  10                  15

Arg Ala Val Tyr Gln Ser Met Cys Lys Pro Ile Thr Gly Thr Ile Asn
             20                  25                  30

Asp Leu Asn Gln Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala
         35                  40                  45

Val Pro Arg Ser Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr
     50                  55                  60

Cys Lys Tyr Pro Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr
 65                  70                  75                  80

Leu Gly Ile Gln Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly
                 85                  90                  95

Glu Gln Pro Thr Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr
            100                 105                 110

Gly Gln Pro Glu Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr
        115                 120                 125

Gly Arg Thr Ser Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile
    130                 135                 140

Ala Ser Ser Lys Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly
145                 150                 155                 160
```

Lys Ser Tyr Asn Thr Ala Phe Glu Leu Asn Ile Asn Asp
165 170

<210> 60
<211> 212
<212> PRT
<213> Homo sapiens

<400> 60
Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
1 5 10 15

Arg Ala Val Tyr Gln Ser Ser Glu Ser Asn Ala Val Gly Met Gly Leu
20 25 30

Trp Arg Leu Arg Pro Ser Ala Leu Thr Leu Ser Pro Val Glu Ala Pro
35 40 45

Ala Phe Ser Ala Pro Leu Cys Thr Leu Pro Phe Pro Pro Val Cys Lys
50 55 60

Pro Ile Thr Gly Thr Ile Asn Asp Leu Asn Gln Gln Val Trp Thr Leu
65 70 75 80

Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser Asp Ser Val Thr Pro
85 90 95

Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro Glu Ala Leu Glu Gln
100 105 110

Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln Asn Pro Glu Met Cys
115 120 125

Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr Leu Gln Leu Lys Glu
130 135 140

Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu Pro Val Lys Pro Phe
145 150 155 160

Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser Thr Leu Glu Ser Val
165 170 175

Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys Arg Asp Gln Pro Ile
180 185 190

Ile Leu Thr Ser Glu Leu Gly Lys Ser Tyr Asn Thr Ala Phe Glu Leu

195 200 205

Asn Ile Asn Asp
210

<210> 61
<211> 155
<212> PRT
<213> Homo sapiens

<400> 61
Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu
1 5 10 15

Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
20 25 30

Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
35 40 45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
50 55 60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
65 70 75 80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
85 90 95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
100 105 110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
115 120 125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
130 135 140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
145 150 155

<210> 62
<211> 180
<212> PRT
<213> Homo sapiens

<400> 62
Met Ala Leu Ala Asp Leu Tyr Glu Glu Gly Gly Gly Gly Gly Gly Glu
1 5 10 15

Gly Glu Asp Asn Ala Asp Ser Lys Glu Thr Ile Cys Arg Pro Ser Gly
20 25 30

Arg Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln
35 40 45

Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln
50 55 60

Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro Ile Glu
65 70 75 80

Pro His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met Cys Leu Ser
85 90 95

Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu Glu Ala Val Asn
100 105 110

Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp Lys Arg Phe Ala Phe
115 120 125

Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys
130 135 140

Pro Gly Trp Phe Leu Cys Thr Ala Met Glu Ala Asp Gln Pro Val Ser
145 150 155 160

Leu Thr Asn Met Pro Asp Glu Gly Val Met Val Thr Lys Phe Tyr Phe
165 170 175

Gln Glu Asp Glu
180

<210> 63
<211> 158
<212> PRT
<213> Homo sapiens

<400> 63
Gly Pro Ser Ala Leu Ser Tyr Cys Phe Arg Ile Lys Tyr Ala Asp Gln
1 5 10 15

Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro Val

20 25 30

Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Ile Leu Pro Asn Arg Gly
35 40 45

Leu Ala Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser
50 55 60

Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu
65 70 75 80

Glu Pro Ser Thr Leu Pro Pro Gln Asp Val Asn Ile Glu Glu Leu Tyr
85 90 95

Lys Gly Gly Glu Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser
100 105 110

Gly Ser Ala Phe Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu
115 120 125

Cys Gly Pro Ala Glu Pro Gln Gln Pro Val Gln Leu Thr Lys Glu Ser
130 135 140

Glu Pro Ser Ala Arg Thr Lys Phe Tyr Phe Glu Gln Ser Trp
145 150 155

<210> 64
<211> 266
<212> PRT
<213> Sus scrofa

<400> 64
Met Ala Thr Val Pro Glu Pro Ile Asn Glu Val Met Ala Tyr Tyr Ser
1 5 10 15

Asp Glu Asn Glu Leu Leu Phe Glu Val Asp Gly Pro Lys Gln Met Lys
20 25 30

Ser Cys Thr Gln His Leu Asp Leu Gly Ser Met Gly Asp Gly Asn Ile
35 40 45

Gln Leu Gln Ile Ser His Gln Leu Tyr Asn Lys Ser Phe Arg Gln Val
50 55 60

Val Ser Val Ile Val Ala Met Glu Lys Leu Arg Ser Arg Ala Tyr Glu
65 70 75 80

```
His Val Phe Arg Asp Asp Asp Leu Arg Ser Ile Leu Ser Phe Ile Phe
                 85                  90                  95

Glu Glu Glu Pro Val Ile Phe Glu Thr Ser Ser Asp Glu Leu Leu Cys
            100                 105                 110

Asp Ala Ala Val Gln Ser Val Lys Cys Lys Leu Gln Asp Arg Glu Gln
        115                 120                 125

Lys Ser Leu Val Leu Asp Ser Pro Cys Val Leu Lys Ala Leu His Leu
    130                 135                 140

Leu Ser Gln Glu Met Ser Arg Glu Val Val Phe Cys Met Ser Phe Val
145                 150                 155                 160

Gln Gly Glu Glu Arg Asp Asn Lys Ile Pro Val Ala Leu Gly Ile Arg
                165                 170                 175

Asp Lys Asn Leu Tyr Leu Ser Cys Val Lys Lys Gly Asp Thr Pro Thr
            180                 185                 190

Leu Gln Leu Glu Glu Val Asp Pro Lys Val Tyr Pro Lys Arg Asn Met
        195                 200                 205

Glu Lys Arg Phe Val Phe Tyr Lys Thr Glu Ile Lys Asn Thr Val Glu
    210                 215                 220

Phe Glu Ser Val Leu Tyr Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ile
225                 230                 235                 240

Glu Glu Lys Pro Val Phe Leu Gly Arg Phe Arg Gly Gly Gln Asp Ile
                245                 250                 255

Thr Asp Phe Arg Met Glu Thr Leu Ser Pro
            260                 265
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<210> 65
<211> 329
<212> DNA
<213> Sus scrofa

<400> 65
catttaatag cctgtagaga cacagaattc agtgacaagg aaaagggtaa tatggtttac 60
ctgggaatca agggaaaaga tctctgtctc ttctgtgcag aaattcaggg caagcctact 120
ttgcagctta aggaaaaaaa tatcatggac ctgtatgtgg agaagaaagc acagaagccc 180
tttctctttt tccacaataa agaaggctcc acttctgtct ttcagtcagt ctcttaccct 240
ggctggttca tagccacctc caccacatca ggacagccca tctttctcac caaggagaga 300

ggcataacta ataacactaa cttctactt 329

<210> 66
<211> 197
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 66
catatactga gagaaagatg tgcgagtatt gttcctggga tcaggaactt gcttctgtga 60
atcggagtat cagtagaaaa tcagacctga gaagagcaaa agccttcttt cccaagggcc 120
caccctttag tcagcctcct ggctggttct cactcacaac agcagcctct caccaagagc 180
ataacacaat tctactt 197

<210> 67
<211> 331
<212> DNA
<213> Homo sapiens

<400> 67
caaatactaa actggaagag aagatagatg tggtgcctgt tgagcctcat tttgtgttcc 60
tggggatcca tggagggaag ctgtgcctgt cctgtgtcaa gtctggtgat gagatgaagc 120
tccagttgga cgcagttaac atcacagacc tgagaaagaa cagcgagcag gacaagcgct 180
tcaccttcat ccgctccgac agtggcccca ccaccagctt tgagtcagcc gcctgtcctg 240
gctggttcct ctgcactgca ctagaggcag accagcctgt tggcctcacc aacacgccca 300
aagcagccgt caaggtcacc aagttctact t 331

<210> 68
<211> 149
<212> PRT
<213> Homo sapiens

<400> 68
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

<210> 69
<211> 149
<212> PRT
<213> Homo sapiens

<400> 69
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

<210> 70
<211> 149
<212> PRT
<213> Homo sapiens

<400> 70
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

<210> 71
<211> 85
<212> PRT
<213> Homo sapiens

<400> 71
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp
85

<210> 72
<211> 80
<212> PRT
<213> Homo sapiens

<400> 72
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Asp
65 70 75 80

<210> 73
<211> 85
<212> PRT
<213> Homo sapiens

<400> 73
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Leu
65 70 75 80

Gln Gly Ser Gln Asp
85

<210> 74
<211> 146
<212> PRT
<213> Homo sapiens

<400> 74
Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu Ser Gly Asn
1 5 10 15

Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro Val Thr Leu
20 25 30

His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys Glu Lys Gly
35 40 45

Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys Leu Phe Cys
50 55 60

Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu Lys Asn Ile
65 70 75 80

Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe Leu Phe Phe
85 90 95

His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val Ser Tyr Pro
100 105 110

Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro Ile Phe Leu
115 120 125

Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr Leu Asp Ser
130 135 140

Val Glu
145

<210> 75
<211> 52
<212> PRT
<213> Homo sapiens

<400> 75
Asp Ser Val Leu Asn Leu Ala Leu Lys Ile Asp Leu Gly Gly Cys Leu
1 5 10 15

Cys Gln Pro Thr Leu Leu Asn Ile Met Leu Tyr Lys Lys Phe Phe Gly
20 25 30

Thr Ser Phe Ser Tyr Pro Gly Trp Phe Thr Gln Pro Leu Thr Glu Gly
35 40 45

Asn Thr Phe Tyr
50

<210> 76
<211> 147
<212> PRT
<213> Homo sapiens

<400> 76
Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn Asn
1 5 10 15

Gln Leu Leu Ala Gly Gly Leu His Ala Gly Lys Val Ile Lys Gly Glu
20 25 30

Glu Ile Ser Val Val Pro Asn Arg Trp Leu Asp Ala Ser Leu Ser Pro

35 40 45

Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly Val
50 55 60

Gly Gln Glu Pro Thr Leu Thr Leu Glu Pro Val Asn Ile Met Glu Leu
65 70 75 80

Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg Asp
85 90 95

Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp Phe
100 105 110

Leu Cys Thr Val Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln Leu
115 120 125

Pro Glu Asn Gly Gly Trp Asn Ala Pro Ile Thr Asp Phe Tyr Phe Gln
130 135 140

Gln Cys Asp
145

<210> 77
<211> 170
<212> PRT
<213> Homo sapiens

<400> 77
Met Gly Thr Pro Gly Leu Ala Leu His Ala Asp Trp Thr Val Ser Gln
1 5 10 15

Asp Phe Cys Arg Thr Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln
20 25 30

Met Val Trp Val Leu Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser
35 40 45

Arg Ser Ile Lys Pro Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr
50 55 60

Glu Phe Ser Asp Lys Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys
65 70 75 80

Gly Lys Asp Leu Cys Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr
85 90 95

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Leu Gln Leu Lys Glu Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys
            100                 105                 110

Ala Gln Lys Pro Phe Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser
        115                 120                 125

Val Phe Gln Ser Val Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr
    130                 135                 140

Thr Ser Gly Gln Pro Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn
145                 150                 155                 160

Asn Thr Asn Phe Tyr Leu Asp Ser Val Glu
                165                 170
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<210> 78
<211> 212
<212> PRT
<213> Homo sapiens

<400> 78

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Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
  1               5                  10                  15

Arg Ala Val Tyr Gln Ser Ser Glu Ser Asn Ala Val Gly Met Gly Leu
             20                  25                  30

Trp Arg Leu Arg Pro Ser Ala Leu Thr Leu Ser Pro Val Glu Ala Pro
         35                  40                  45

Ala Phe Ser Ala Pro Leu Cys Thr Leu Pro Phe Pro Pro Val Cys Lys
     50                  55                  60

Pro Ile Thr Gly Thr Ile Asn Asp Leu Asn Gln Gln Val Trp Thr Leu
 65                  70                  75                  80

Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser Asp Ser Val Thr Pro
                85                  90                  95

Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro Glu Ala Leu Glu Gln
            100                 105                 110

Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln Asn Pro Glu Met Cys
        115                 120                 125

Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr Leu Gln Leu Lys Glu
    130                 135                 140
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Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu Pro Val Lys Pro Phe
145 150 155 160

Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser Thr Leu Glu Ser Val
165 170 175

Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys Arg Asp Gln Pro Ile
180 185 190

Ile Leu Thr Ser Glu Leu Gly Lys Ser Tyr Asn Thr Ala Phe Glu Leu
195 200 205

Asn Ile Asn Asp
210

<210> 79
<211> 180
<212> PRT
<213> Homo sapiens

<400> 79
Met Ala Leu Ala Asp Leu Tyr Glu Glu Gly Gly Gly Gly Gly Gly Glu
1 5 10 15

Gly Glu Asp Asn Ala Asp Ser Lys Glu Thr Ile Cys Arg Pro Ser Gly
20 25 30

Arg Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln
35 40 45

Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln
50 55 60

Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro Ile Glu
65 70 75 80

Pro His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met Cys Leu Ser
85 90 95

Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu Glu Ala Val Asn
100 105 110

Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp Lys Arg Phe Ala Phe
115 120 125

Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys

130 135 140

Pro Gly Trp Phe Leu Cys Thr Ala Met Glu Ala Asp Gln Pro Val Ser
145 150 155 160

Leu Thr Asn Met Pro Asp Glu Gly Val Met Val Thr Lys Phe Tyr Phe
165 170 175

Gln Glu Asp Glu
180

<210> 80
<211> 155
<212> PRT
<213> Homo sapiens

<400> 80
Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu
1 5 10 15

Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
20 25 30

Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
35 40 45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
50 55 60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
65 70 75 80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
85 90 95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
100 105 110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
115 120 125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
130 135 140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
145 150 155

<210> 81
<211> 266
<212> PRT
<213> Homo sapiens

<400> 81
Met Ala Thr Val Pro Glu Pro Ile Asn Glu Val Met Ala Tyr Tyr Ser
1 5 10 15

Asp Glu Asn Glu Leu Leu Phe Glu Val Asp Gly Pro Lys Gln Met Lys
20 25 30

Ser Cys Thr Gln His Leu Asp Leu Gly Ser Met Gly Asp Gly Asn Ile
35 40 45

Gln Leu Gln Ile Ser His Gln Leu Tyr Asn Lys Ser Phe Arg Gln Val
50 55 60

Val Ser Val Ile Val Ala Met Glu Lys Leu Arg Ser Arg Ala Tyr Glu
65 70 75 80

His Val Phe Arg Asp Asp Asp Leu Arg Ser Ile Leu Ser Phe Ile Phe
85 90 95

Glu Glu Glu Pro Val Ile Phe Glu Thr Ser Ser Asp Glu Leu Leu Cys
100 105 110

Asp Ala Ala Val Gln Ser Val Lys Cys Lys Leu Gln Asp Arg Glu Gln
115 120 125

Lys Ser Leu Val Leu Asp Ser Pro Cys Val Leu Lys Ala Leu His Leu
130 135 140

Leu Ser Gln Glu Met Ser Arg Glu Val Val Phe Cys Met Ser Phe Val
145 150 155 160

Gln Gly Glu Glu Arg Asp Asn Lys Ile Pro Val Ala Leu Gly Ile Arg
165 170 175

Asp Lys Asn Leu Tyr Leu Ser Cys Val Lys Lys Gly Asp Thr Pro Thr
180 185 190

Leu Gln Leu Glu Glu Val Asp Pro Lys Val Tyr Pro Lys Arg Asn Met
195 200 205

Glu Lys Arg Phe Val Phe Tyr Lys Thr Glu Ile Lys Asn Thr Val Glu
210 215 220

Phe Glu Ser Val Leu Tyr Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ile
225 230 235 240

Glu Glu Lys Pro Val Phe Leu Gly Arg Phe Arg Gly Gly Gln Asp Ile
245 250 255

Thr Asp Phe Arg Met Glu Thr Leu Ser Pro
260 265

<210> 82
<211> 244
<212> DNA
<213> Homo sapiens

<400> 82
tctacctggg cctgaatgga ctcaatctct gcctgatgtg tgctaaagtc ggggaccagc 60
ccacactgca gctgaagctt caggaaaagg atataatgga tttgtacaac caacccgagc 120
ctgtgaagtc ctttctcttc taccacagcc agagtggcag gaactccacc ttcgagtctg 180
tggctttccc tggctggttc atcgctgtca gctctgaagg aggctgtcct ctcatcctta 240
ccca 244

<210> 83
<211> 150
<212> DNA
<213> Homo sapiens

<400> 83
ttcctgggta tggaaacttg cctgtgtgta agtcgggaag actcagtgac cagaaataga 60
tgaaaaaccg agcgaagctt cttcccccaa gtggcaccca cttgagtcgg ctcctggctg 120
gttctctgcg cctaggagcc cttcctacca 150

<210> 84
<211> 238
<212> DNA
<213> Homo sapiens

<400> 84
tgttcctggg gatccatgga gggaagctgt gcctgtcctg tgtcaagtct ggtgatgaga 60
tgaagctcca gttggacgca gttaacatca cagacctgag aaagaacagc gagcaggaca 120
agcgcttcac cttcatccgc tccgacagtg gccccaccac cagctttgag tcagccgcct 180
gtcctggctg gttcctctgc actgcactag aggcagacca gcctgttggc ctcaccaa 238

<210> 85

<211> 130
<212> PRT
<213> Homo sapiens

<400> 85
Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

<210> 86
<211> 126
<212> PRT
<213> Homo sapiens

<400> 86
Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Pro Val Thr Ile Ala Leu Ile Ser Cys Arg His Val
20 25 30

Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly Leu Asn
35 40 45

Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln Pro Thr
50 55 60

Leu Gln Leu Lys Glu Lys Asp Ile Met Asp Leu Tyr Asn Gln Pro Glu
65 70 75 80

Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser Gly Arg Asn Ser
85 90 95

Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile Ala Val Ser Ser
100 105 110

Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu Gly Lys
115 120 125

<210> 87
<211> 130
<212> PRT
<213> Homo sapiens

<400> 87
Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Asp Arg Met Ser Pro Val Thr Ile Ala Leu Ile Ser
20 25 30

Cys Arg His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr
35 40 45

Leu Gly Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly
50 55 60

Asp Gln Pro Thr Leu Gln Leu Lys Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

<210> 88
<211> 130
<212> PRT
<213> Homo sapiens

<400> 88
Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

<210> 89
<211> 82
<212> PRT
<213> Homo sapiens

<400> 89
Asp Asn Val Trp Leu Gln Gln Leu Ala Val Pro Arg Val Pro Val Thr
1 5 10 15

Ala Ile Cys Glu Leu Glu Arg Gly Pro Ile Tyr Leu Gly Cys Leu Cys
20 25 30

Lys Val Gly Gln Pro Thr Leu Gln Leu Lys Glu Ile Met Asp Leu Tyr
35 40 45

Gln Pro Glu Pro Val Lys Phe Leu Phe Tyr Gly Arg Ser Thr Glu Ser
50 55 60

Val Ala Phe Pro Trp Phe Ile Ala Ser Ser Pro Ile Leu Thr Glu Leu
65 70 75 80

Gly Lys

<210> 90
<211> 129
<212> PRT
<213> Homo sapiens

<400> 90
Asp Leu Asn Gln Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala
1 5 10 15

Val Pro Arg Ser Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr
20 25 30

Cys Lys Tyr Pro Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr
35 40 45

Leu Gly Ile Gln Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly
50 55 60

Glu Gln Pro Thr Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr
65 70 75 80

Gly Gln Pro Glu Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr
85 90 95

Gly Arg Thr Ser Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile
100 105 110

Ala Ser Ser Lys Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly
115 120 125

Lys

<210> 91

<211> 81
<212> PRT
<213> Mus musculus

<400> 91
Ile Tyr Leu Gly Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys
1 5 10 15

Val Gly Asp Gln Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile
20 25 30

Met Asp Leu Tyr Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr
35 40 45

His Ser Gln Ser Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro
50 55 60

Gly Trp Phe Ile Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu
65 70 75 80

Thr

<210> 92
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<400> 92
Leu Gly Gly Leu Cys Leu Cys Ala Lys Gly Asp Leu Leu Glu Ile Asp
1 5 10 15

Leu Glu Lys Phe Phe Ser Gly Phe Glu Ser Ala Pro Gly Trp Phe Glu
20 25 30

Pro Leu Thr
35

<210> 93
<211> 79
<212> PRT
<213> Homo sapiens

<400> 93
Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Ala Lys
1 5 10 15

Ser Gly Asp Asp Ile Lys Leu Gln Leu Glu Glu Val Asn Ile Thr Asp
20 25 30

Leu Ser Lys Asn Lys Glu Glu Asp Lys Arg Phe Thr Phe Ile Arg Ser
35 40 45

Glu Lys Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp
50 55 60

Phe Leu Cys Thr Thr Leu Glu Ala Asp Arg Pro Val Ser Leu Thr
65 70 75

<210> 94
<211> 178
<212> PRT
<213> Mus musculus

<400> 94
Met Glu Ile Cys Trp Gly Pro Tyr Ser His Leu Ile Ser Leu Leu Leu
1 5 10 15

Ile Leu Leu Phe His Ser Glu Ala Ala Cys Arg Pro Ser Gly Lys Arg
20 25 30

Pro Cys Lys Met Gln Ala Phe Arg Ile Trp Asp Thr Asn Gln Lys Thr
35 40 45

Phe Tyr Leu Arg Asn Asn Gln Leu Ile Ala Gly Tyr Leu Gln Gly Pro
50 55 60

Asn Ile Lys Leu Glu Glu Lys Ile Asp Met Val Pro Ile Asp Leu His
65 70 75 80

Ser Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Ala
85 90 95

Lys Ser Gly Asp Asp Ile Lys Leu Gln Leu Glu Glu Val Asn Ile Thr
100 105 110

Asp Leu Ser Lys Asn Lys Glu Glu Asp Lys Arg Phe Thr Phe Ile Arg
115 120 125

Ser Glu Lys Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly
130 135 140

Trp Phe Leu Cys Thr Thr Leu Glu Ala Asp Arg Pro Val Ser Leu Thr
145 150 155 160

Asn Thr Pro Glu Glu Pro Leu Ile Val Thr Lys Phe Tyr Phe Gln Glu
165 170 175

Asp Gln

<210> 95
<211> 177
<212> PRT
<213> Equus caballus

<400> 95
Met Glu Ile Arg Arg Arg Ser Val Arg His Leu Ile Ser Leu Leu Leu
1 5 10 15

Phe Leu Phe Tyr Ser Glu Thr Ala Cys His Pro Leu Gly Lys Arg Pro
20 25 30

Cys Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln Lys Thr Phe
35 40 45

Tyr Met Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln Glu Ser Asn
50 55 60

Thr Lys Leu Gln Glu Lys Ile Asp Val Val Pro Ile Glu Pro Asp Ala
65 70 75 80

Leu Phe Leu Gly Leu His Gly Arg Lys Leu Cys Leu Ala Cys Val Lys
85 90 95

Ser Gly Asp Glu Ile Arg Phe Gln Leu Glu Ala Val Asn Ile Thr Asp
100 105 110

Leu Ser Lys Asn Lys Glu Glu Asn Lys Arg Phe Thr Phe Ile Arg Ser
115 120 125

Asn Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp
130 135 140

Phe Leu Cys Thr Ala Gln Glu Ala Asp Arg Pro Val Ser Leu Thr Asn
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Lys Pro Lys Glu Ser Phe Met Val Thr Lys Phe Tyr Leu Gln Glu Asp
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Gln

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<212> PRT
<213> Homo sapiens

<400> 96
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Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
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Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
35 40 45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
50 55 60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
65 70 75 80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
85 90 95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
100 105 110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
115 120 125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
130 135 140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
145 150 155

<210> 97
<211> 130
<212> PRT

<213> Homo sapiens

<400> 97

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

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synthesized

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